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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,267	06/10/2005	Takchiko Kawasaki	03500.017907 2262	
5514 7590 08/21/2007 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
			JOERGER, KAITLIN S	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
			3653	
			<u></u>	
			MAIL DATE	DELIVERY MODE
			08/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/538,267	KAWASAKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kaitlin S. Joerger	3653			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	- action is non-final	·			
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	That we				
4) \boxtimes Claim(s) <u>1-15</u> is/are pending in the application.	Application of the state of the				
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.		·			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.		·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers	. 영 임급(11년) 18. 기업 - 1811				
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 10 June 2005 is/are: a)	⊠ accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•			
12)⊠ Acknowledgment is made of a claim for foreign	ಾ. ಾರ್. priority under 35 U.S.C. § 119(a))-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage			
application from the International Bureau	ມ (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
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	A Committee of the Comm				
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)					
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 10, 11, and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomita et al. (U.S. Patent 5,852,499).

Regarding claim 1, Tomita et al. teaches a sheet material information-detecting apparatus comprising:

- a sheet feeding means, 6, for feeding the sheet material;
- a correcting means, 11, for correcting the position of the feed sheet material to bring the orientation direction of the constituting material of the sheet material to be in a prescribed direction relative to the feed direction of the sheet material;
- an external force applying means for applying an external force to the sheet material in the corrected position; and the material in the corrected position; and the material in the corrected position; and the material in the corrected position.
- a signal detecting means for detecting signal from the sheet material; and
- an information-acquiring means for acquiring information on the stress caused by the applied external force in the sheet material, see column 8, lines 58+.

Regarding claim 2, Tomita et al. further teaches a sheet material sensor for sensing interaction of the external force applying means and signal detecting means with the sheet material, 10.

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Regarding claim 3, Tomita et al. teaches that the sensor detects the state or position of the sheet material, see column 8, lines 58+.

Regarding claim 4, Tomita et al. further teaches that the sheet information acquiring means acquires information by comparison of the result of the detection by the signal detecting means with data, see column 7, lines 40+.

Regarding claim 5, Tomita et al. teaches that the sheet acquiring means acquires information by comparison of the result of the detection by the signal detecting means with data for directions of the sheet material, see column 7, lines 40+.

Regarding claim 10, Tomita et al. teaches that the external force is a wave, see column 5, lines 43+.

Regarding claim 11, Tomita et al. teaches that the external force is an optical wave, see column 5, lines 43+.

Regarding claim 13, Tomita et al. teaches a sheet material-treating assembly, 7, for treating the sheet material by utilizing the information obtained by the sheet information-detecting apparatus.

Regarding claim 14, Tomita et al. teaches a driving assembly for the sheet material feeding means, see figure 9.

Regarding claim 15, Tomita et al. teaches a process for acquiring information on a sheet material, comprising the steps of:

correcting the position of a fed sheet material to bring the orientation direction of the constituting material of the sheet material to be in a prescribed direction relative to the feed direction of the sheet material;

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- applying an external force to the sheet material in the corrected position; and

- acquiring information on the stress caused by the applied external force in the sheet material, see column 5, lines 43+ and column 8, lines 58+.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6, 7, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tomita et al. in view of Chase.

Regarding claim 6, Tomita et al. does not teach that the external force is a mechanical force, but Chase does. Chase teaches an information-detecting apparatus that comprises an external mechanical force, see figure 3 and column 12, lines 14+.

Regarding claim 7, Chase teaches that the mechanical force is plural times of impacts at different collision velocities, see figure 3 and column 12, lines 14+.

Regarding claim 9, Chase teaches a restricting member is provided for restricting the region of displacement of the sheet material on application of the external force, see figure 3.

Both Tomita et al. and Chase teach an information-detecting apparatus, therefore it would have been obvious to one of ordinary skill in the art to substitute the information-detecting apparatus of Chase, that applies a mechanical external force, for the information-detecting

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apparatus of Tomita et al. to achieve the predictable result of determining the orientation of the sheet being fed.

Claims 8 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tomita et al. in view of Agdur et al.

Regarding claim 8, Tomita et al. does not teach that the external force is vibrations having different frequency components, but Agdur et al. does, see column 2, lines 2+. Both Tomita et al. and Agdur teach an information-detecting apparatus, therefore it would have been obvious to one of ordinary skill in the art to substitute the information-detecting apparatus of Agdur, that applies a vibrations, for the information-detecting apparatus of Tomita et al. to achieve the predictable result of determining characteristics of the sheet being fed.

Regarding claim 12, Agdur et al. teaches that the signal-detecting means is comprised of a material having a piezoelectric property, see column 2, lines 2+. Both Tomita et al. and Agdur teach a signal-detecting apparatus, therefore it would have been obvious to one of ordinary skill in the art to substitute the information-detecting apparatus of Agdur, that has a piezoelectric property, for the information-detecting apparatus of Tomita et al. to achieve the predictable result of determining characteristics of the sheet being fed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaitlin S. Joerger whose telephone number is 571-272-6938. The examiner can normally be reached on Monday - Friday 9-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on 571-272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kaitlin S Joerger Examiner Art Unit 3653

20 August 2007